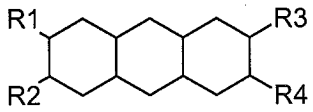
This listing of claims will replace all prior versions, and listings, of claims in the application:

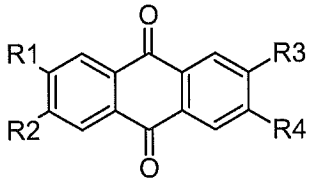
Listing of Claims:

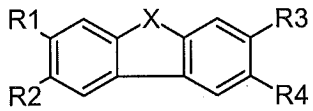
Claim 1 (original): A novel pharmacophore model as defined by the parameters of Table 4 and Table 5.

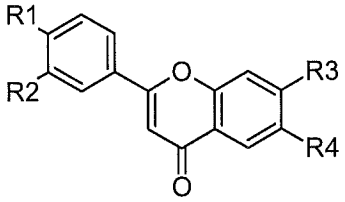
Claim 2 (original): The novel pharmacophore model of claim 1, wherein scaffold molecules derived therefrom can be used as a basis for compounds directed to inotropic Na, K-ATPase inhibition.

Claim 3 (original): The novel pharmacophore model of claim 1, wherein the model produces an Na, K-ATPase inhibitor compound of the formula:









wherein R1, R2, R3 and R4 can be any organic functional group containing a hydrogen bond donor or a hydrogen bond acceptor and X is any element or group that allows the compound to retain inotropic activity.

Claim 4 (original): The novel pharmacophore model of claim 3, wherein X is N, O, S, or C.

Claim 5 (original): A method of using a pharmacophore model to create an Na, K-ATPase inhibitory compound comprising the steps of:

(a) creating alignment between SERCA and Na, K-ATPase, wherein SERCA is a template;

(b) transferring coordinates from the template to a model for structurally conserved regions;

(c) generating variable regions;

(d) refining the model through energy minimization steps; and

(e) performing docking analysis of prospective drug candidates.

Claim 6 (original): The method of claim 5, further comprising the steps of:

(f) delineating the essential pharmacophoric elements for high binding affinity;

(g) searching databases of known compounds using the restraints as implicated by the pharmacophore with allowable tolerances; and

(h) utilizing de novo rational drug design and computer aided molecular modeling to design novel compounds using the restraints as implicated by the pharmacophore with allowable tolerances.

Claim 7 (original): The method of claim 6, wherein the allowable tolerances in steps (g) and (h) is ±10%.

Claim 8 (original): The method of claim 5, wherein step (a) is comprised of dynamic programming and threading.

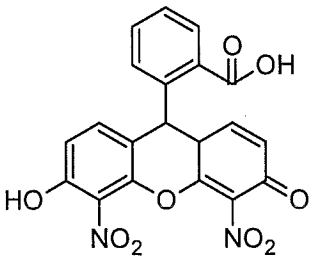
Claim 9 (original): The method of claim 5, wherein SERCA is SERCA1a.

Claim 10 (original): The method of claim 5, wherein the steps are carried out using a computer-readable medium having computer-executable instructions.

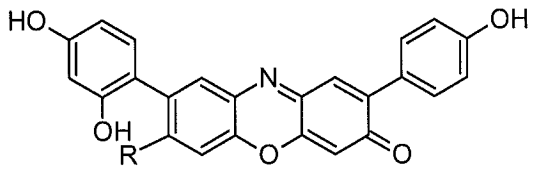
Claim 11 (original): The method of claim 10, wherein the steps are carried out using molecular modeling software.

Claim 12 (original): A method of treating an individual with a heart disease comprising administering a therapeutically effective amount of an novel inotropic compound created using a novel pharmacophore model as defined by Table 4 and Table 5.

Claim 13 (original): The method of claim 12, wherein the novel pharmacophore model produces novel inotropic drugs of the formula of:

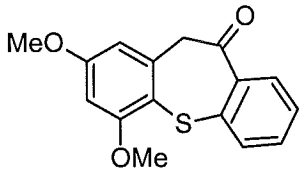


4',5' Dinitroflorescein



#19 R= NH_2 or OH

or



Claim 14 (original): The method of claim 13, wherein the novel drugs have a wider therapeutic index than either ouabain or digoxin.

Claim 15 (original): The method of claim 12, wherein the heart disease treated is congestive heart failure and supraventricular arrhythmia.

Claim 16 (original): The method of claim 12, wherein the novel inotropic compound is administered in a pharmaceutically acceptable carrier.

Claim 17 (original): The method of claim 12, wherein the novel inotropic compound is administered parenterally or orally.

Claim 18 (original): The method of claim 12, wherein residues Q111, D121, E908 and M973 are unaltered.